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NOTICE OF ALLOWANCE AND FEE(S) DUE

69054 7590
RECHES PATENTS
211 North Union St.
Suite 100
Alexandria, VA 22314

12/28/2011

EXAMINER

SAINT CYR, JEAN D

ART UNIT

PAPER NUMBER

2425

DATE MAILED: 12/28/2011

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/698,189	10/30/2003	Ran M. Oz	P-71659-US1	9908

TITLE OF INVENTION: SYSTEM AND METHOD FOR PROVIDING MEDIA STREAM RELATED APPLICATIONS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$870	\$0	\$0	\$870	03/28/2012

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. **PROSECUTION ON THE MERITS IS CLOSED.** THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN **THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE** OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. **THIS STATUTORY PERIOD CANNOT BE EXTENDED.** SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

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If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

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B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail

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INSTRUCTIONS: This form should be used for transmitting the **ISSUE FEE** and **PUBLICATION FEE** (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

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Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

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I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

(Depositor's name)
(Signature)
(Date)

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nonprovisional	YES	\$870	\$0	\$0	\$870	03/28/2012

EXAMINER	ART UNIT	CLASS-SUBCLASS
SAINT CYR, JEAN D	2425	725-088000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

- ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB-112) attached;
☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB-117; Rev 03-02 or more recent) attached. Use of a **Customer Number is required.**

2. For printing on the patent front page, list

- (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, _____
(2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.111. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent): ☐ Individual ☐ Corporation or other private group entity ☐ Government

4a. The following fee(s) are submitted:

- ☐ Issue Fee
☐ Publication Fee (No small entity discount permitted)
☐ Advance Order - # of Copies _____

4b. Payment of Fee(s): (Please first reuply any previously paid issue fee shown above)

- ☐ A check is enclosed.
☐ Payment by credit card. Form PTO-2038 is attached.
☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number _____ (enclose an extra copy of this form).

5. **Change in Entity Status** (from status indicated above)

- ☐ a. Applicant claims **SMALL ENTITY** status. See 37 CFR 1.27. ☐ b. Applicant is no longer claiming **SMALL ENTITY** status. See 37 CFR 1.27(g)(2).

NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

Authorized Signature _____ Date _____

Typed or printed name _____ Registration No. _____

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.**

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Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 663 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 663 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (<http://pair.uspto.gov>).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Notice of Allowability**Application No.**

10/698,189

Examiner

JEAN D. SAINT CYR

Applicant(s)

OZ ET AL.

Art Unit

2425

- The MAILING DATE of this communication appears on the cover sheet with the correspondence address-

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 10/10/2011.
2. ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on ____; the restriction requirement and election have been incorporated into this action.
3. ☒ The allowed claim(s) is/are 1,3-9 and 11-28.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☐ All b) ☐ Some* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: ____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
1) ☐ hereto or 2) ☐ to Paper No./Mail Date ____.
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date ____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date ____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date ____
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other ____

Detailed Action

Examiner's Amendment

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows: In line 17 of claim 16 and in lines 1-2 of claim 27, the applicant puts "wherein the media storage and the management entity is adapted to", the examiner changes that term to "wherein the media storage and the management entity are adapted to".

Allowable Subject Matter

Claims 1, 3-8,20-23, 28; 9, 11-15, 24-25; 16-18, 26-27; 19 are allowed over prior art of record. The following is an examiner's statement of reasons for allowance:

The art of record did not teach or suggest the claim taken as a whole and particular the limitation pertaining to :

For claim 1: "receiving live media streams at a first path, wherein the first path comprises a video pump coupled to a data acquisition unit; retrieving media related information that comprises data structures that assist in constructing non-live media streams; wherein the generating comprises fetching intra-coded frames from locations that are pointed to at the media related information, and altering timing information of the intra-coded frames and of duplicating frames; providing the non-live media stream

from a second path to the client, wherein the second path comprises the video pump and a media server being coupled to each other by a network link that differs from a network link of the first path”.

For claim 9: “first path comprising a video pump coupled to a data acquisition unit; wherein the first path is utilized for receiving live media streams and for providing a live media stream to a client, a second path comprising the video pump and a media server being coupled to each other by a network link that differs from a network link of the first path; wherein the second path is operable to retrieve media related information that comprises data structures that assist in constructing non-live media streams; to online generate at least a portion of a non-live media stream in response to a request to provide the non-live media stream to the client, by utilizing the media related information, wherein the generating comprises fetching intra-coded frames from locations that are pointed to at the media related information, and altering timing information of the intra-coded frames and of duplicating frames; and to provide the non-live media stream to the client, in response to the request to provide the non-live media stream to the client”.

For claim 16: “an acquisition unit coupled to a media source; a video pump interface, coupled to the output of the acquisition unit via a first path, to the media storage and management entity via a second path and to a command channel, the video pump interface is operable to receive instructions/requests from an end-user and accordingly

to determine whether to feed the video pump with live stream media from the acquisition unit via the first path or to initiate a data fetch sequence for fetching data stored in the media storage and management entity, via the second path, in case where trick modes are required; wherein the second path comprises a network link that differs from a network link of the first path; and a video pump that is operable to determine which data to fetch from the media storage and management entity and when to transmit it according to MPEG timing; wherein the video pump is arranged to provide the live media stream to multiple users wherein the live media stream reaches the video pump only once".

For claim 19; "receiving live media streams at a first path, wherein the first path comprises a video pump coupled to a data acquisition unit; providing a live media stream from the first path to a client, in response to a request to provide the live media stream to the client; retrieving media related information that comprises data structures that assist in constructing non-live media streams; wherein the generating comprises fetching intra-coded frames from locations that are pointed to at the media related information, and altering timing information of the intra-coded frames and of duplicating frames; and providing the non-live media stream from a second path to the client, wherein the second path comprises the video pump and a media server being coupled to each other by a network link that differs from a network link of the first path".

With respect to independent claims 1,9, 16, 19:

Dygert et al show in fig.2 where the video pump is directly connected to a Raid Array representing a server or a buffer and disclose the purpose of video pump 12 is to retrieve MPEG audio/video streams from various storage devices, such as RAID array 14 and DVD jukebox, col.5, lines 43-45; col.10, lines 28-31; Video pump responds to system commands from system control server 22 for the retrieval and distribution of isochronous data including both audio and video, col.5, lines 52-54; col.3, lines 54-61; live broadcasts, col.1, line 49.

And Dygert et al disclose perform actions on these video streams, such as pause, play, stop, fast forward, rewind, col.6, lines 8-9; start and stop addresses and start and stop commands are sent to RAID streaming logic, col.6, lines 50-51.

And Weaver et al disclose fast forward the feed at different times, each would require a separate non-linear digital editor, col.2, lines 60-61; indicators of video access points, time stamps, col.7, line 53; prefix data is data that prepares the client to receive digital audio-visual data from the specified location in the digital audio-visual file, col.14, lines 8-11; col.11, 37-49; col.11, lines 31-40.

And Wells et al disclose a multiple source video system comprises a video pump 10a supplying coded real-time video to a decoder 20a, and receiving coded video data from a storage medium 30a; a fourth video pump 10d receiving "live" coded video via an off-air receiver 32 which includes a demultiplexer for extracting a single programme stream

from the received data and buffer 34 having a capacity sufficient to store several minutes.

And Wells et al disclose altering the time at which the data is actually output to the decoder, or both) based on a studio reference clock; One way in which picture output time can be set is by altering one or more values in timing fields contained within the video sequence; advantage is that playout of coded video material may be more readily controlled, for example for starting or pausing at a particular time; it may become possible to effect timing adjustments over longer periods of time, and to maintain decoder synchronization while a sequence is paused. Other effects, such as slow-motion playback may also be possible, and cutting from one sequence to another may be facilitated.

But Dygert in view of Weaver further in view of Wells and any of cited references did not teach or suggest, alone or in combination the feature of:

“receiving live media streams at a first path, wherein the first path comprises a video pump coupled to a data acquisition unit; retrieving media related information that comprises data structures that assist in constructing non-live media streams; wherein the generating comprises fetching intra-coded frames from locations that are pointed to at the media related information, and altering timing information of the intra-coded frames and of duplicating frames; providing the non-live media stream from a second

path to the client, wherein the second path comprises the video pump and a media server being coupled to each other by a network link that differs from a network link of the first path" as recited in combination with other features of independent claim 1.

"first path comprising a video pump coupled to a data acquisition unit; wherein the first path is utilized for receiving live media streams and for providing a live media stream to a client, a second path comprising the video pump and a media server being coupled to each other by a network link that differs from a network link of the first path; wherein the second path is operable to retrieve media related information that comprises data structures that assist in constructing non-live media streams; to online generate at least a portion of a non-live media stream in response to a request to provide the non-live media stream to the client, by utilizing the media related information, wherein the generating comprises fetching intra-coded frames from locations that are pointed to at the media related information, and altering timing information of the intra-coded frames and of duplicating frames; and to provide the non-live media stream to the client, in response to the request to provide the non-live media stream to the client" as recited in combination with other features of independent claim 9 .

"an acquisition unit coupled to a media source; a video pump interface, coupled to the output of the acquisition unit via a first path, to the media storage and management entity via a second path and to a command channel, the video pump interface is

operable to receive instructions/requests from an end-user and accordingly to determine whether to feed the video pump with live stream media from the acquisition unit via the first path or to initiate a data fetch sequence for fetching data stored in the media storage and management entity, via the second path, in case where trick modes are required; wherein the second path comprises a network link that differs from a network link of the first path; and a video pump that is operable to determine which data to fetch from the media storage and management entity and when to transmit it according to MPEG timing; wherein the video pump is arranged to provide the live media stream to multiple users wherein the live media stream reaches the video pump only once" as recited in combination with other features of independent claim 16.

"receiving live media streams at a first path, wherein the first path comprises a video pump coupled to a data acquisition unit; providing a live media stream from the first path to a client, in response to a request to provide the live media stream to the client; retrieving media related information that comprises data structures that assist in constructing non-live media streams; wherein the generating comprises fetching intra-coded frames from locations that are pointed to at the media related information, and altering timing information of the intra-coded frames and of duplicating frames; and providing the non-live media stream from a second path to the client, wherein the second path comprises the video pump and a media server being coupled to each other by a network link that differs from a network link of the first path" as recited in combination with other features of independent claim 19.

The dependent claims 3-8, 20-23, 28; 11-15, 24-25; 17-18, 26-27 are allowed because they further limit independent/parents claims.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Weaver et al (6119154) disclose Method and apparatus for non-sequential access to an in-progress video feed.

Wells et al (6741290) disclose Processing coded video.

Okada et al (5900904) disclose Picture reproduction position detecting apparatus for use with video on demand system.

Dygart et al (6954469) disclose Multi-channel video pump.

Nishikawa et al (6032180) disclose Image data transmission system video server unit, and client unit for displaying image data.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jean Duclos Saintcyr whose phone number is 571-270-3224. The examiner can normally reach on M-F 7:30-5:00 PM EST. If attempts to reach the examiner by telephone are not successful, his supervisor, Brian Pendleton, can be reached on 571-272-7527. The fax number for the organization where the application or proceeding is assigned is 571-273-8300. Information regarding the status of an application may be obtained from the Patent Application Retrieval (PAIR) system. Status information for published applications may be obtained from either private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, dial 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Jean Duclos Saintcyr /

/Brian T Pendleton/

Supervisory Patent Examiner, Art Unit 2425